

Claims

1. A multicomponent clostridial vaccine composition comprising two or more clostridial immunogens and a rapidly dispersed adjuvant.

5 2. The vaccine composition of claim 1, wherein said adjuvant is saponin.

3. The vaccine composition of claim 1 wherein said clostridial immunogens comprise two or more clostridial bacterins or toxoids.

10 4. The vaccine composition of claim 3 wherein said two or more clostridial bacterins or toxoids are derived from the group of *Clostridia* consisting of *Clostridium perfringens*, *Clostridium septicum*, *Clostridium tetani*, *Clostridium chauvoei*, *Clostridium novyi*, *Clostridium sordellii*, *Clostridium haemolyticum*, *Clostridium botulinum*, and serotypes thereof.

15 5. The vaccine composition of claim 3 wherein said composition comprises clostridial bacterins or toxoids derived from each of *Clostridium chauvoei*, *Clostridium septicum*, *Clostridium novyi*, *Clostridium sordellii*, *Clostridium perfringens*, Type C and *Clostridium perfringens*, Type D.

20 6. The vaccine composition of claim 3 wherein said composition comprises clostridial bacterins or toxoids derived from each of *Clostridium haemolyticum*, *Clostridium chauvoei*, *Clostridium septicum*, *Clostridium novyi*, *Clostridium sordellii*, *Clostridium perfringens*, Type C and *Clostridium perfringens*, Type D.

25 7. A multicomponent clostridial vaccine composition comprising:
(a) clostridial bacterins or toxoids derived from each of *Clostridium chauvoei*, *Clostridium septicum*, *Clostridium novyi*, *Clostridium sordellii*, *Clostridium perfringens*, Type C and *Clostridium perfringens*, Type D; and
30 (b) a saponin adjuvant.

8. A multicomponent clostridial vaccine composition comprising:
(a) clostridial bacterins or toxoids derived from each of *Clostridium haemolyticum*, *Clostridium chauvoei*, *Clostridium septicum*, *Clostridium novyi*,
35 *Clostridium sordellii*, *Clostridium perfringens*, Type C and *Clostridium perfringens*, Type D; and
(b) a saponin adjuvant.

9. A method of preventing or treating clostridial infection in a bovine animal, said method comprising administering an effective amount of the vaccine composition of claim 1 to said bovine animal.

5

10. A method of preventing or treating clostridial infection in a bovine animal, said method comprising administering an effective amount of the vaccine composition of claim 7 to said bovine animal.

10

11. A method of preventing or treating clostridial infection in a bovine animal, said method comprising administering an effective amount of the vaccine composition of claim 8 to said bovine animal.

15

12. The method of claim 9 wherein said administering is done via an intramuscular injection.

13. The method of claim 10 wherein said administering is done via an intramuscular injection.

20

14. The method of claim 11 wherein said administering is done via an intramuscular injection.

25

15. The method of claim 9 wherein said administering is done via a subcutaneous injection.

16. The method of claim 10 wherein said administering is done via a subcutaneous injection.

30

17. The method of claim 11 wherein said administering is done via a subcutaneous injection.